

Claims

1 1. A method of reducing mammalian androgen-  
2 stimulated hair growth, which comprises  
3 selecting an area of skin from which hair grows in  
4 response to androgen-stimulation from which reduced hair  
5 growth is desired; and  
6 applying to said area of skin a dermatologically  
7 acceptable composition comprising a compound that induces or  
8 activates a UDP-glucouronosyltransferase or a  
9 sulfotransferase, wherein the compound is present in the  
10 composition in an amount effective to reduce hair growth.

1 2. A method of increasing mammalian hair growth,  
2 which comprises  
3 selecting an area of skin from which hair grows that  
4 does not grow in response to androgens from which increased  
5 hair growth is desired; and  
6 applying to said area of skin a dermatologically  
7 accepted composition comprising a compound that induces or  
8 activates a UDP-glucouronosyltransferase or a  
9 sulfotransferase, wherein the compound is present in the  
10 composition in an amount effective to increase hair growth.

1 3. The method of claim 1 or 2, wherein said  
2 compound comprises ethoxyquin.

β 1 4. The method of claim ~~1 or 2~~; wherein said  
2 compound comprises 5,7-dihydroxy-4'-methoxyflavone.

1 5. The method of claim 1 or 2, wherein said  
2 compound comprises butylhydroxyanisole.

1 6. The method of claim 1 or 2, wherein said  
2 compound comprises phenobarbital.

B 1 7. The method of claim 1 ~~or 2~~, wherein said  
2 compound comprises naringenin.

1 8. The method of claim 1 or 2, wherein said  
2 compound comprises butylhydroxytoluene.

B 1 9. The method of claim 1 ~~or 2~~, wherein said  
2 compound comprises flavone.

1 10. The method of claim 1 or 2, wherein said  
2 compound comprises tioconazole.

1 11. The method of claim 1, wherein said compound  
2 comprises trans-1,2-bis(2-pyridyl)ethylene.

B 1 12. The method of claim 1 ~~or 2~~, wherein said  
2 compound comprises 7,4'-isoflavandiol.

B 1 13. The method of claim 1 ~~or 2~~, wherein said  
2 compound comprises galangin.

B 1 14. The method of claim 1 ~~or 2~~, wherein said  
2 compound comprises 7-hydroxy-4'-methoxyisoflavone.

B 1 15. The method of claim 1 ~~or 2~~, wherein said  
2 compound comprises 5,4'-dihydroxy-7-methoxyisoflavone.

B 1 16. The method of claim 1 ~~or 2~~, wherein said  
2 compound comprises daidzein.

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a2  
1 17. The method of claim 1, wherein said compound  
2 induces or activates a UDP-glucouronosyltransferases.

1 18. The method of claim 2, wherein said compound  
2 induces or activates a sulfotransferase.

1 19. The method of claim 1 or 2, wherein said  
2 androgen comprises testosterone.

1 20. The method of claim 1 or 2, wherein the  
2 concentration of said compound in said composition is  
3 between 0.1% and 30%.

1 21. The method of claim 1 or 2, wherein the  
2 composition provides a reduction in hair growth of at least  
3 15% when tested in the Golden Syrian hamster assay.

1 22. The method of claim 1 or 2, wherein the  
2 composition provides a reduction in hair growth of at least  
3 40% when tested in the Golden Syrian hamster assay.

1 23. The method of claim 1 or 2, wherein said mammal  
2 is a human.

1 24. The method of claim 1, wherein the area of skin  
2 is on the face of the human.

1 25. The method of claim 24, wherein said human is a  
2 woman suffering from hirsutism.

1 26. The method of claim 2, wherein the area of skin  
2 is on the scalp of a human.

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1 27. A method of reducing mammalian androgen-  
2 stimulated hair growth, which comprises  
3 selecting an area of skin from which hair grows in  
4 response to androgen-stimulation from which reduced hair  
5 growth is desired; and  
6 applying to said area of skin a dermatologically  
7 acceptable composition comprising a compound that induces or  
8 activates the conjugation of an androgen that stimulates  
9 androgen-stimulated hair growth to produce a conjugate of  
10 the androgen, wherein the compound is present in the  
11 composition in an amount effective to reduce the hair  
12 growth.

1 28. The method of claim 27, wherein the area of  
2 skin is on the face of a human.

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1 29. A method of increasing mammalian hair growth,  
2 which comprises  
3 selecting an area of skin from which hair does not  
4 grow in response to androgens from which increased hair  
5 growth is desired; and  
6 applying to said area of skin, a dermatologically  
7 acceptable composition comprising a compound that induces or  
8 activates the conjugation of an androgen that retards hair  
9 growth to produce a conjugate of the androgen, wherein the  
10 compound is present in the composition in an amount  
11 effective to increase the hair growth.

1 30. The method of claim 29, wherein the area of  
2 skin includes the scalp of a human.

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1           31. The method of claim 27 or 29, wherein the  
2 compound is an inducer or activator of an androgen  
3 conjugation enzyme.

1            32. The method ~~to~~<sup>of</sup> claim 31, wherein the androgen  
2 comprises a testosterone.

1           33. The method of claim 31, wherein the androgen  
2 comprises dihydrotestosterone.

1           34. The method of claim 31, wherein the androgen  
2 comprises an androgen selected from the group consisting of  
androstenedione, androstenediols, and  
dehydroepiandrosterone.

35. A method of reducing mammalian androgen-stimulated hair growth, which comprises selecting an area of skin from which hair grows in response to androgen-stimulation from which reduced hair growth is desired; and applying to said area of skin a dermatologically acceptable composition comprising a compound that induces or activates the conversion of testosterone to a less active metabolite, wherein the compound is present in the composition in an amount effective to reduce the hair growth from the area of skin.

1           36. The method of claim 35, wherein the area of  
2   skin is on the face of a human.

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1           37. The method of claim 35, wherein the less active  
2 metabolite comprises a compound that is more water soluble  
3 than testosterone.

1           38. A method of increasing hair growth from the  
2 scalp of a human, which comprises  
3           selecting an area of the scalp of a human from which  
4 increase hair growth is desired; and  
5           applying to the area of the scalp a dermatologically  
6 acceptable composition comprising a compound that induces or  
7 activates the conversion of testosterone to a less active  
8 metabolite, wherein the compound is present in the  
9 composition in an amount effective to increase hair growth  
10 from the area of the scalp.

1           39. The method of claim 38, wherein the less active  
2 metabolite comprises a compound that is more water soluble  
3 than testosterone.